

OR 70SS

Product Description

- 100% solids Aromatic polyurea coating
- 2 component sprays applied
- Polyurea elastomer
- A tough, rapid set, high build product
- VOC compliant and moisture tolerant
- Free of pinholes & holidays
- No blisters or crater
- Cures without shrinkage

Primary Application

- Digesters and tanks
- Exterior pipe coating
- Secondary containment over concrete, fiberglass, dense foam, wood, w/geo-textile, plastic and steel
- Sewer wet wells, man hole covers to protect from hydrogen sulfide degradation

OR 70SS Polyurea Color

- 100% solids shall be tinted dark gray, black, brown, silver, blue, and green
- Custom colors available

Primer

- OR PR811
- OR E41
- OR 711 recommended primers

Chemical Resistance

- Good Hydrolytic stability to 300° F
- Good resistance to inorganic bases, acids and hydrocarbon solvents
- Good resistance to oxygenated and chlorinated solvents

Storage Life

- One (1) year in an unopened container
- Temperature not less than 40° F (5° C)
- Temperature not above 100° F (38° C)

Product Advantages

- Seamless
- Long open application window
- Hi Temp Range
- No VOC
- Easy high film build
- Long coating life
- Self-extinguishing in 2 hours
- Vertical or horizontal application
- Cures at temps (-) 40° F/40° C
- Back in service sooner
- Wide product applications
- Reduced labor cost
- Abrasion resistant
- Tough film
- Can be water immersed

Application Equipment

1:1 high pressure plural component equipment, must maintain minimum Temp of 160° F and 2200 PSI during application.
Coverage: 80 Sq. Ft. per gallon @ 20 mils

Typical Physical Properties

	Test	Value
Tensile Strength	ASTM D-638	4500 psi
Elongation	ASTM D-628	250% Min
Hardness (shore D)	ASTM D-2240	70(±) shore D

Tear Resistance	ASTM D-624	200 lbs./in (±)
Ratio A/B		1:1 by volume
VOC	ASTM 3960	0
Flexibility	ASTM D-1737	Passed
Bond Strength (Electrometer)	ASTM D-4541	1500psi
Water vapor permeability impact	ASTM E-96	0.02 perms
Compressibility	ASTM G-14 steel pipe	1650lbs/in
Part recovery (%)	ASTM D-695	7450(±100)
Surface hardness	ASTM D-638 (modified)	67% Min
Abrasion Resistance	ASTM D-2240	70(±) Shore D
Oxygen permeability	ASTM D-4060	6mg loss H-101000
Accelerated weather	Ni 1 at Kg/cm ² feed pressure	2,800 circulating 35% SiC & 5% Fe slurry
Salt spray	2,000 hr. weather meter	slight color change
Water absorption	ASTM 117-73	No effect at 10,000 hr.
Cathodic disbondment days, Radius of disbondment 6 MM	ASTM D-471	0.5%
Cathodic disbondment In Seawater @ 1200mV	ASTM G-8	1.5V, 3% NaCl 30
Cathodic disbondment days W/2700 micron (106 mil) thick ZEBRON	ASTM G-8	No effect after 6 wks.
Volume Resistivity	ASTM G-8	No effect after 24
Temperature Resistance	ASTM D-257	10.0 hm-cm
Thermal conductivity	Wet immersion @ 150° F (65°C) max	continuous dry 300° F (93°C) max
Tack Free	ASTM C-177	0.000723 cal/sec cm ² C per cm @ 20° C
Cure time		20-30 Sec
Recoat time		7 Days @ 70°F
Decomposition Temperature of Cured dry film		up to 1 hour
		700°F +/- 25°F

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